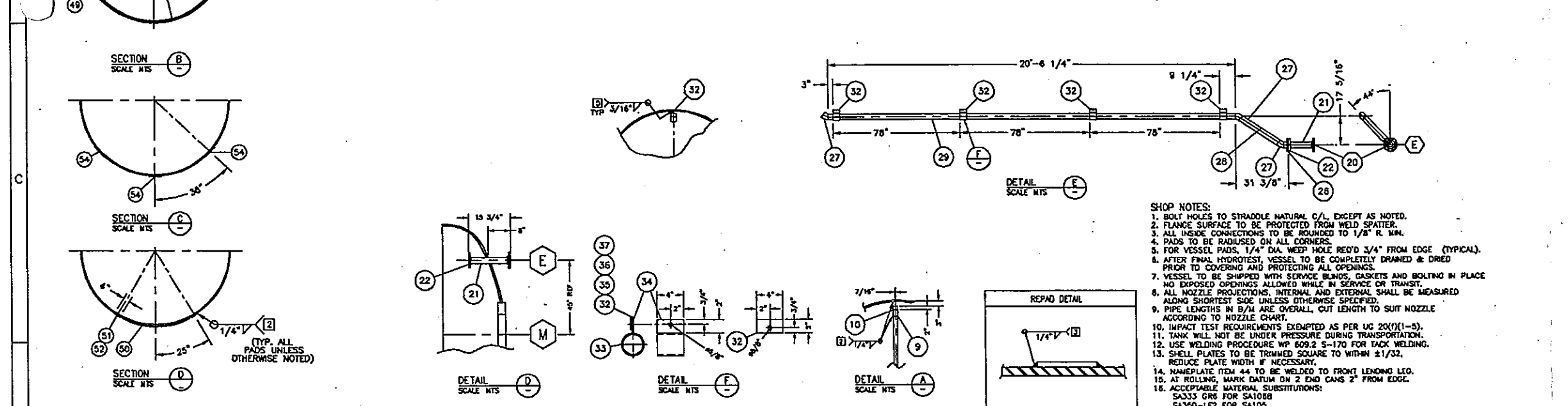
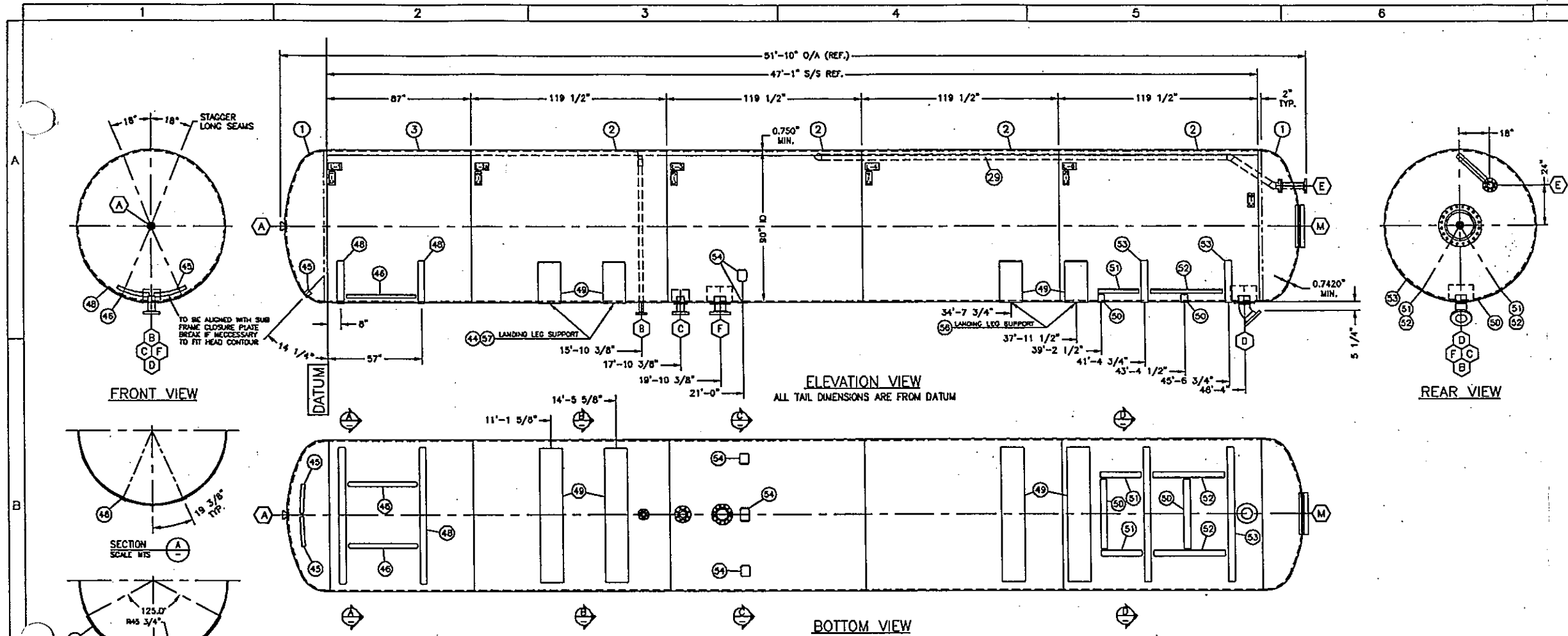
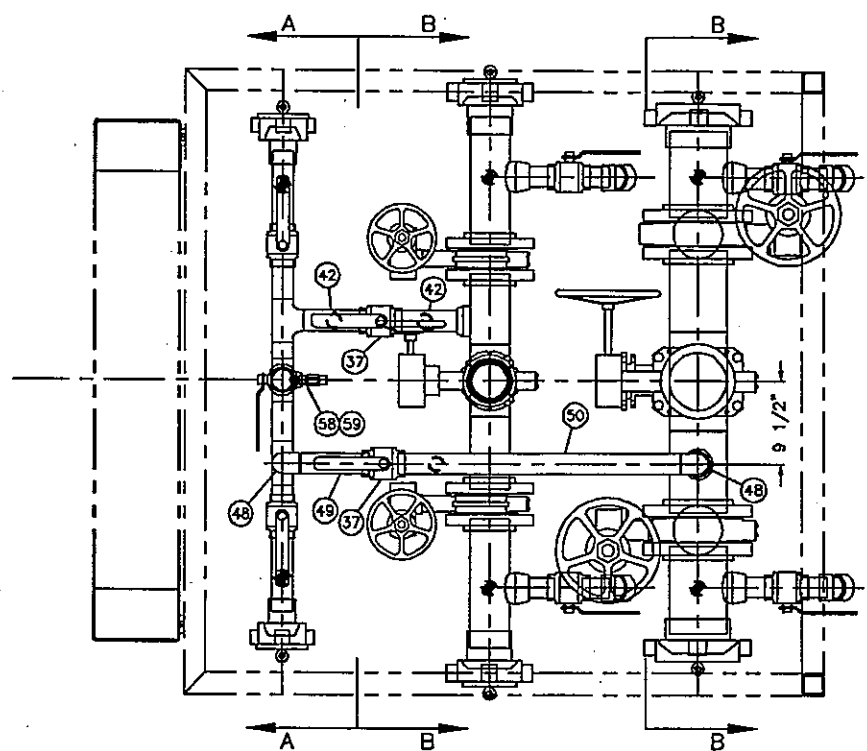


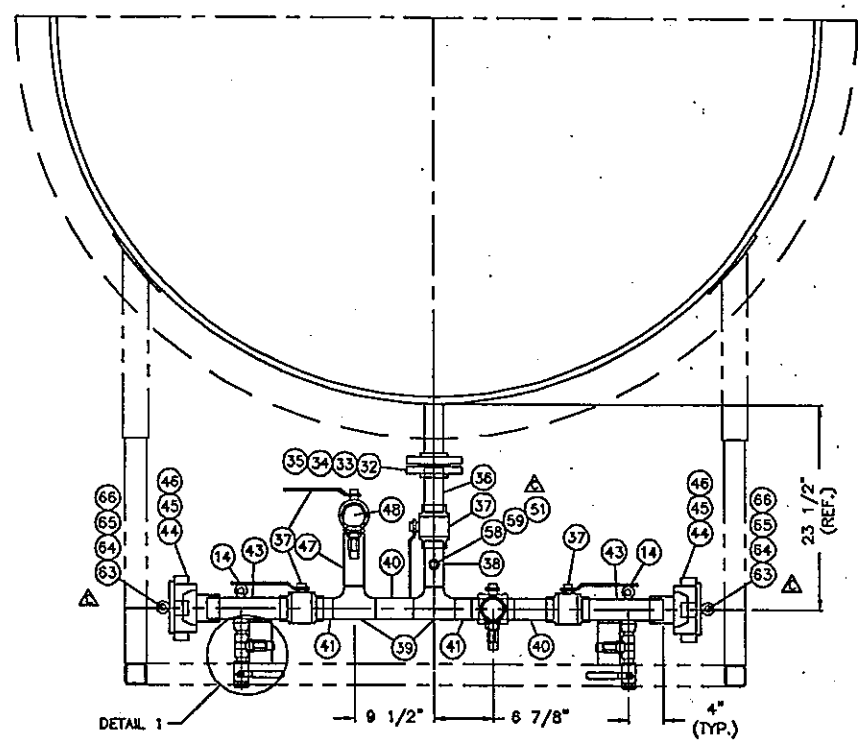
ITEM	LOCATION	PART NO.	QTY	DESCRIPTION
1	HEAD	87888	2 EA	HD 2:1SE 91.5 OD X .742 MN 2" SF SA516-70
2	SHELL	95272	12	PL .750" SA516-70 4 PCS 23'-11" X 8'-11" 1/2"
3	SHELL	51353	12	PL .375" SA516-70 4 PCS 23'-11" X 8'-11" 1/2"
4	FL	1726332	1 EA	FLG 6 CL300 RFSO SA105N 1 PCS 23'-11" X 8'-11" 1/2"
5	FL	87884	1 EA	FLG 6 CL300 RFSO SA105N 1 PCS 23'-11" X 8'-11" 1/2"
6	FL	59224	1 EA	FLG 6 CL300 RFSO SA105N 1 PCS 23'-11" X 8'-11" 1/2"
7	FL	58001	1 EA	FLG 6 CL300 RFSO SA105N 1 PCS 23'-11" X 8'-11" 1/2"
8	FL	51051	7.9 FT	PIPE 2" STD SMLS SA 1068 1 PCS 84'-1/2" LG
9	FL	65955	1.0 FT	BAR FLAT 1/4" X 2" 44W 4 PCS 4" LG
10	FL	51554	0.3 FT	PIPE 2-1/2" STD SMLS SA 1068 1 PCS 3" LG
11	FL	85359	1 EA	FLG 4 CL300 RFSO SA105N 1 PCS 8'-1/2" OD
12	FL	51353	0.5 FT	PIPE 1" STD SMLS SA 1068 1 PCS 7'-1/2" LG
13	FL	51353	0.5 FT	PIPE 1" STD SMLS SA 1068 1 PCS 7'-1/2" LG
14	FL	64494	1 EA	VORTEX BREAKER GENERIC SA516-70N (4") DWG 9805-208
15	FL	65370	1 EA	FLG 6 CL300 RFSO STD BORE SA105N 2 PCS 12" OD
16	FL	51353	2.0 FT	PIPE 2" STD SMLS SA 1068 1 PCS 5" LG
17	FL	51557	0.4 FT	PIPE 6" STD SMLS SA 1068 1 PCS 5" LG
18	FL	62954	1 EA	ELBOW WELD 45 LR 6 STD SA234 WPB
19	FL	64494	2 EA	VORTEX BREAKER GENERIC SA516-70N (6") DWG 9805-208
20	FL	54685	1 EA	FLG 3 CL300 RFSO SA105N 1 PCS 15" LG
21	FL	51561	1.4 FT	PIPE 3" SCH180 SMLS SA 1068 1 PCS 15" LG
22	FL	18850008	1 EA	FLG 3 CL150 RFSO SA105N 1 PCS 15" LG
23	FL	68809	2 EA	GASKET DURLON 8500 3 CL150 1/16" THK
24	FL	51720	4 EA	STUD 9/8" X 3-3/4" LG SA 193-87
25	FL	51710	4 EA	NUT HEX 5/8" NC SA 194-2H
26	FL	51642	1 EA	FLG 3 CL150 RFSO STD BORE SA105
27	FL	54372	3 EA	ELBOW WELD 45 LR 3 STD SA234 WPB
28	FL	51559	2.7 FT	PIPE 3" STD SMLS SA 1068 1 PCS 31 9/16" LG
29	FL	51559	20.6 FT	PIPE 3" STD SMLS SA 1068 1 PCS 20'-6 1/4" LG
30	FL	51567	0.6 FT	PIPE 6" STD SMLS SA 1068 1 PCS 7'-3/8" LG
31				
32	FL	65955	1.3 FT	BAR FLAT 1/4" X 2" 44W 4 PCS 4" LG
33	FL	56607	1.3 FT	PIPE 3-1/2" STD SMLS SA1068 4 PCS 4" LG
34	FL	65955	1.3 FT	BAR FLAT 1/4" X 2" 44W 4 PCS 4" LG
35	FL	55848	4 EA	BOLT HEX 1/2" NC X 1-1/2" GR8 ZN PL
36	FL	55839	4 EA	NUT HEX 1/2" NC X 1-1/2" GR8 ZN PL
37	FL	50587	1 EA	WASHER LOCK 1/2" ZN PL
38	FL	65368	1 EA	FLG 6 CL300 RFSO STD BORE SA105N 1 PCS 15" LG
39	FL	55382	1 EA	FLG 6 CL300 RFSO STD BORE SA105N 1 PCS 15" LG
40	FL	19900807	1 EA	GA ROTARY 1" MNPT W/O DIAL J31X-3L
41	FL	67918	1 EA	GASKET DURLON 8500 16" CL300
42	FL	65558	20 EA	STUD 1-1/4" UC X 5-3/4" LG BTPI SA-193-87
43	FL	51712	20 EA	NUT HEX 1-1/4" BTPI SA 194-2H
44	FL	58077	1 EA	PL DATA DUAL UNITS METRIC/IMP (NOTE 14) DWG 8805-15A
45	FL	58206	1.4 FT	PIPE 3" STD SMLS SA 1068 1 PCS 21' X 4"
46	FL	58206	2.3 FT	PIPE 3" STD SMLS SA 1068 2 PCS 41'-7/8" X 4"
47	FL			
48	FL	58206	5.7 FT	PIPE 3" STD SMLS SA 1068 2 PCS 8' X 4"
49	FL	58206	5.7 FT	PIPE 3" STD SMLS SA 1068 4 PCS 100' X 14"
50	FL	58206	2.4 FT	PIPE 3" STD SMLS SA 1068 2 PCS 43' X 4"
51	FL	58206	1.4 FT	PIPE 3" STD SMLS SA 1068 2 PCS 24'-3/4" X 4"
52	FL	58206	2.4 FT	PIPE 3" STD SMLS SA 1068 2 PCS 43' X 4"
53	FL	58206	5.7 FT	PIPE 3" STD SMLS SA 1068 2 PCS 8' X 4"
54	FL	58206	1.0 FT	PIPE 3" STD SMLS SA 1068 3 PCS 8' X 5"
55	FL			
56	FL			
57	FL			
58	FL			
59	FL			
60	FL			

DESIGN DATA - ENGLISH (METRIC) UNITS	
ASME SEC. VIII DIV. 1, 2001 EDITION, 2002 ADDENDA	SYMBOL UNITS (a) & (b)
DESIGN INT: 325 PSI (2241 kPa) EXT: N/A	DIAMETER 90" ID (2286 mm)
MAWP INT: 325 PSI (2241 kPa) EXT: N/A	LENGTH O/A 51'-10" (15,799 mm)
DESIGN TEMP. - INT & EXT: 115°F (48°C)	CAPACITY: 2,205 FT³ (62.4 M³)
MOWT: -20°F @ 325 PSI (-29°C @ 2241 kPa)	SURFACE AREA: 1,262 FT² (117 M²)
XRAY SHELL LONG: FULL	CIRC: UW11(5)(b)
XRAY HEAD LONG: SMLS	CIRC: UW11(5)(b)
JOINT EFF. - HEAD: 100% SHELL: 100%	HEAD TYPE: SEMI-ELLIPTICAL
STRESS RELIEVED: NO	HEAD MATERIAL: SA-516-70
HYDRO TEST NEW & COLD: 427 PSI (2914 kPa)	HEAD THICKNESS: 0.7420" MIN (18.85 mm)
LIMITED BY: HEAD	HEAD CORROSION ALLOWANCE: NIL
EST. SHIPPING WEIGHT: 53,100 LBS (24,100 KG)	STUDS: SA-193-87M
	NUTS: SA-194-2H
SANDBLAST: SSPC-SP6	W GASKETS: DURLON 8500
PRIMER: PAINT	FLANGES: SA-105N PPE: SA-1068
INSULATION: 4" ISOFOAM SS-D153	SUPPORT MTL: REINFORCING MTL: SA-516-70
CRN: PENDING	
REG DRAWING	

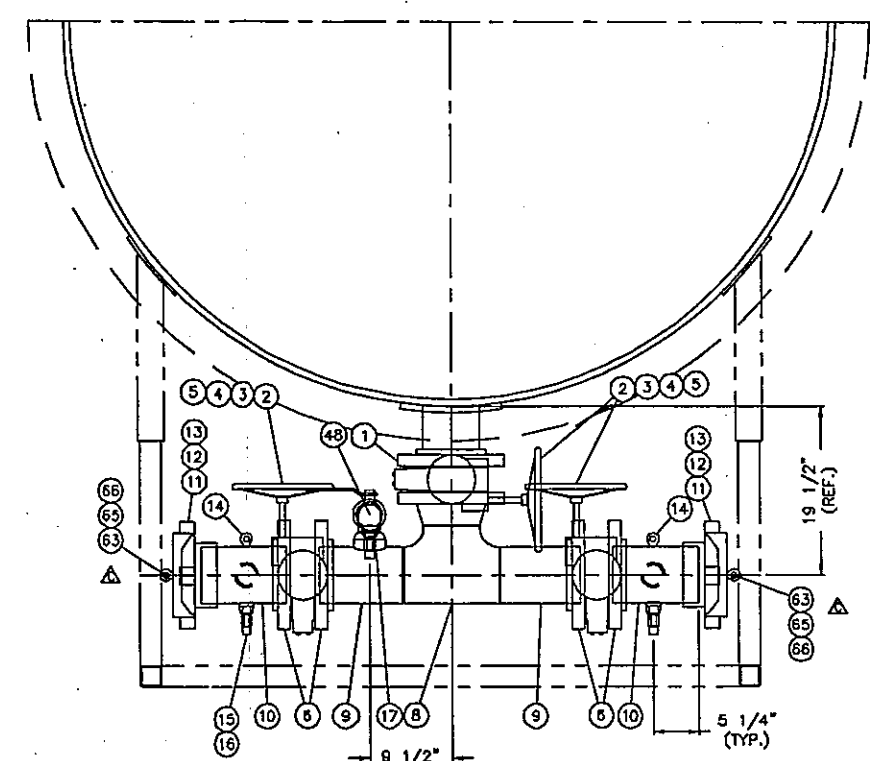
EC DRAWING					
		 Maxfield Inc.			
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		90" ID 16,500 USWG c/w TWO 6" OPENINGS MOBILE CO2 STORAGE TANK			
SCHED. WELDS, ITEM #12 IN X HEAD THK. (mm).				JOB #31-0576 TO D582	
M DWG 2003-0827D, REV. B. LE "F" WITH VORTEX BREAKER. "B, C" & FRONT LANDING 24"				DRAWING No. 2003-1004D	
DESCRIPTION		SCALE: NTS		P/N - 67888	
				SHEET 1 OF 1	
				REV A	



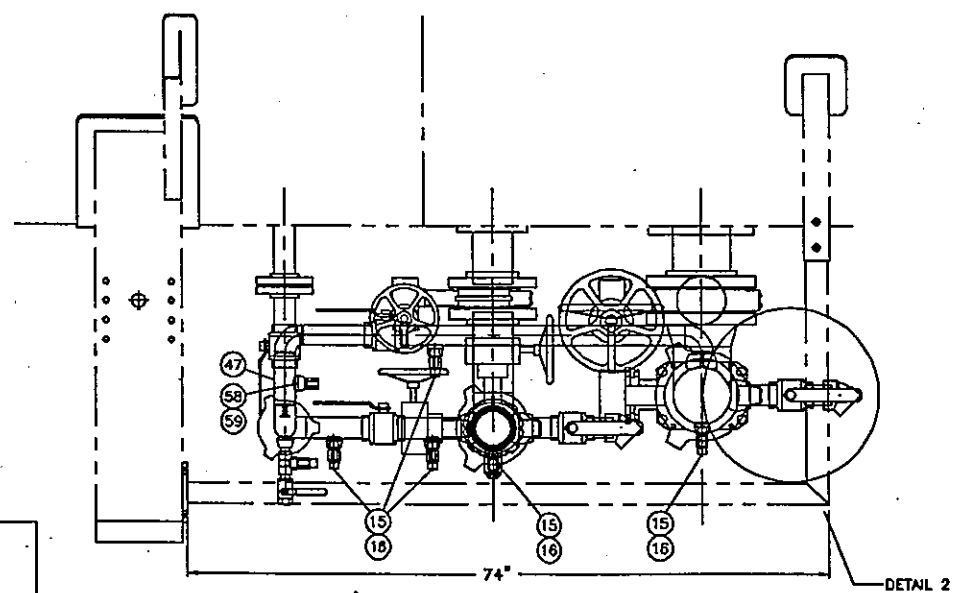
PLAN VIEW



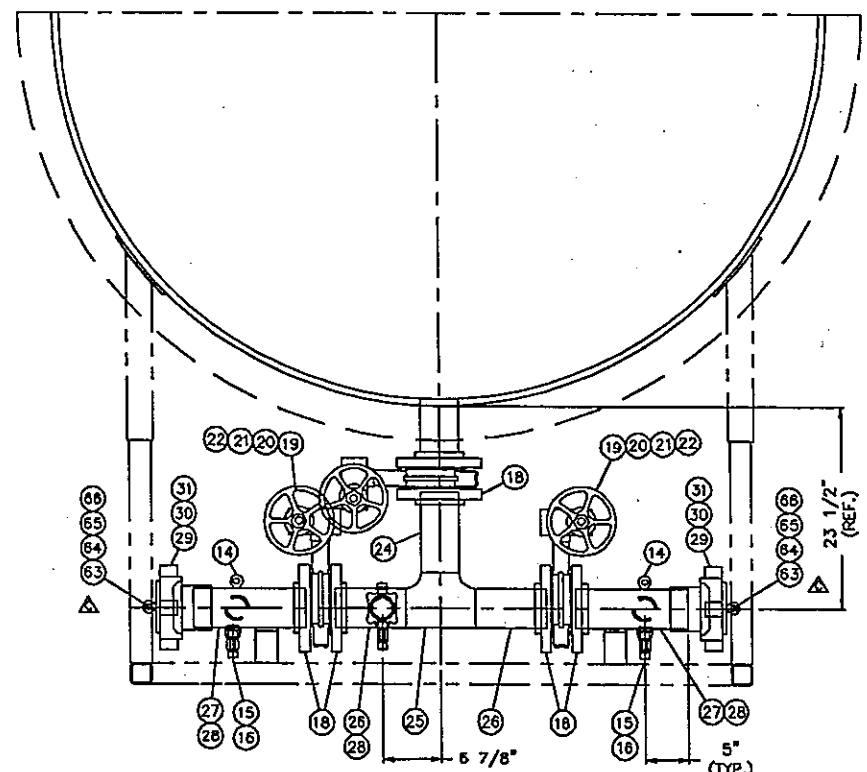
VIEW A-A



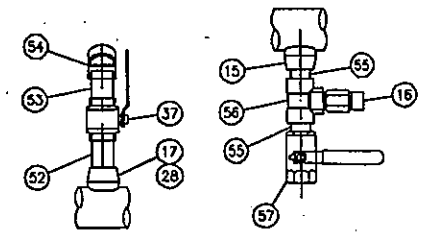
VIEW C-C



ELEVATION VIEW



VIEW B-B



DETAIL 2

DETAIL 1

48	81134	8EA CLAMP CABLE 3/16\" PLATED	6 PCS 24\" LG
49	51050	1/2\" DIA CABLE 3/16\" DIA COATED	6 PCS 24\" LG
50	81144	20FT BAR END 1/2\" DIA 304	6 PCS 4\" LG
51	81170	8EA CLAMP PAD 3/16\"	6 PCS 4\" LG
52	80940	2EA ROLL UP 2\" DIA PIPE W/MAITS 316-SS	
53	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
54	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
55	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
56	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
57	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
58	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
59	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
60	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
61	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
62	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
63	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
64	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
65	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
66	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
67	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
68	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
69	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
70	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
71	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
72	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
73	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
74	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
75	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
76	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
77	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
78	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
79	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
80	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
81	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
82	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
83	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
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86	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
87	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
88	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
89	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
90	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
91	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
92	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
93	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
94	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
95	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
96	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
97	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
98	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
99	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	
100	50427	2EA ROLL UP 2\" PIPE C/W PL & B SUTS	

WELD PROCEDURES

- 1 609.2-S-170 (SMAW)
- 2 609.2-S-140 (SMAW)
- 3 609.2-S-94-1(SMAW)
- 4 609.2-S-181 (GMAW)

TYPICAL WELD DETAIL

ANSI/ASME B31.3 PRESSURE PIPING SYSTEM DESIGN DATA

PROCESS	DESIGN PRESS. kPa (psi)	DESIGN TEMP. (°C)	TEST PRESS. kPa (psi)	TEST MEDIUM	MATERIAL SPEC. AND GRADE	PIPE DIAMETER AND SCHEDULE	FLANGE RATING	R.T. %
CO2	2" 2241 (325)	48	2" 3365 (488)	H2O	SA-106-B	2" SCH STD	300#	5
	4" 2758 (400)		4" 4137 (600)		SA-234-WPB SA-105	4" SCH STD 4" SCH XH		

NOTES:

- 1) WHEN BUTT WELDING XH WALL TO STD WALL PIPE & AND FITTINGS TOGETHER, PREPARE XH PORTION INSIDE WITH A 3:1 TRANSITION TAPER.
- 2) ALL THREADED CONNECTIONS TO BE SCH 80 OR XH.
- 3) SHOP TO ADJUST PIPE LENGTH ON WELDED PIPING TO ALLOW FOR WELD GAP AND SHRINKAGE.
- 4) USE WELD PROCEDURE #4 FOR WELDING STAINLESS STEEL BALL VALVES TO CARBON STEEL.

REVISIONS

REV	NO.	DATE	ENG	PLANT	QC	DESCRIPTION
C	JC	04.02.24				REVISED ITEMS #18 & 51. ADDED ITEMS #63, 64, 65 & 68.
B	JC	03.11.04				REVISED ITEMS #11, 13, 29, 31, 44 & 48.
A	JC	03.10.22				REVISED ITEMS #7, 26, 27, 40, 41, 42, 43, 47, 49, 50 & 51 AS PER SHOP REQUEST.
O	JC	03.10.08				ORIGINATED FROM DWG 2003-0840D, REV. D.

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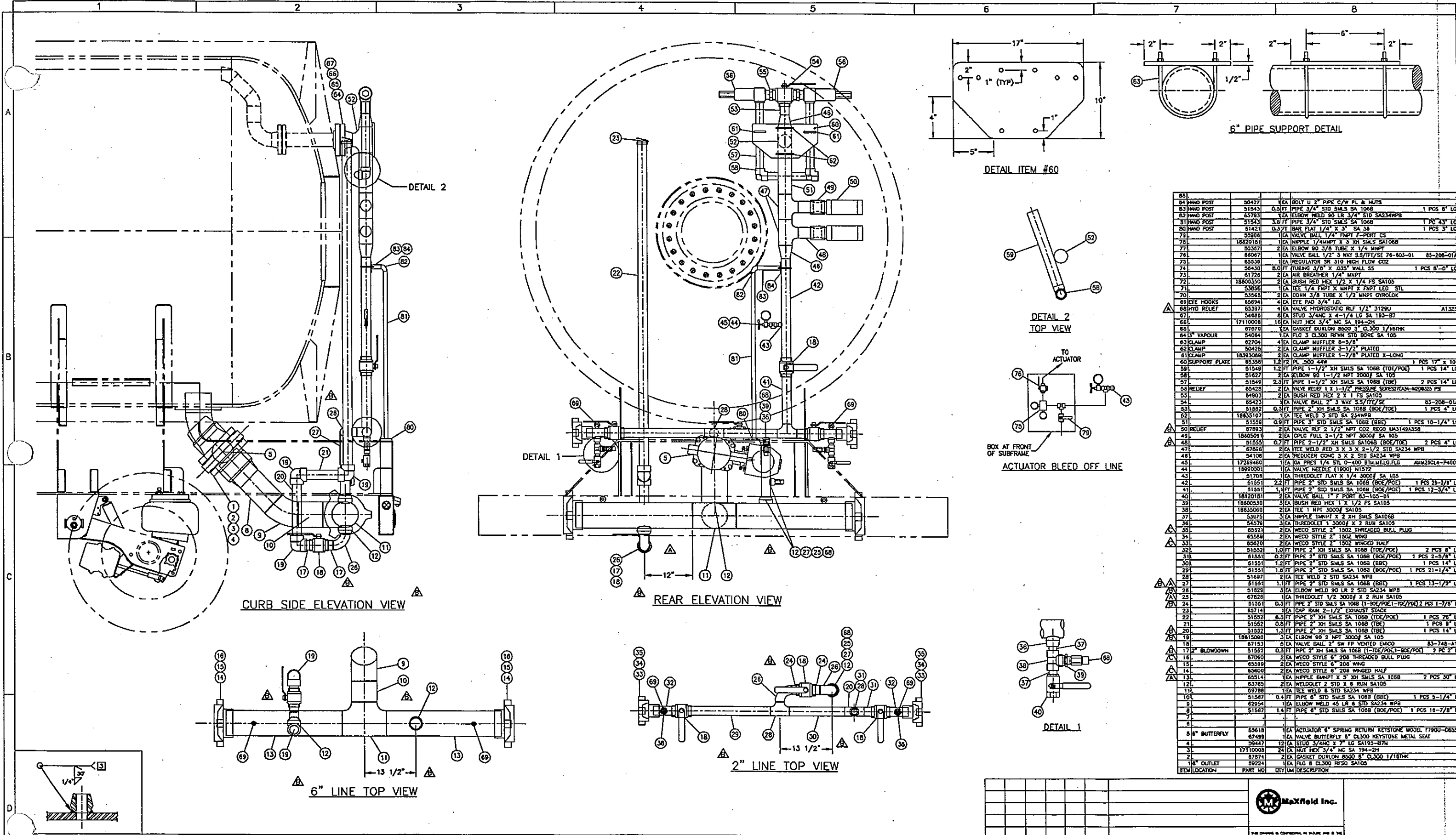
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FILL PIPING ARRANGEMENT c/w 6" OPENING

16,500 USWG 90" ID MOBILE CO2 STORAGE TANK

SCALE: NTS P/N - 67894

JOB # 2003-1005D SHEET 1 OF 1



WELD PROCEDURES						PRESSURE PIPING SYSTEM DESIGN DATA (CODE-ANSI/ASME B31.3 1999 EDITION, ADDENDA 2001)								SHOP NOTES: 1) FOR BUTT WELDING PIPE SCH. STD TO XH TOGETHER, GRIND THE XH PIPE OR FITTING WITH A 3:1 TAPER INSIDE. 2) ALL THREADED CONNECTIONS TO BE SCH 80 OR XH. 3) SHOP TO ADJUST PIPE LENGTH ON WELDED PIPING TO ALLOW FOR SHRINKAGE. 4) USE WELD PROCEDURE #4 FOR WELDING STAINLESS STEEL BALL VALVES TO CARBON STEEL.				REAR PIPING ARRANGEMENT 16,500 USWG 90° CO2 MOBILE STORAGE TANK											
1) 609.2-S-170 (SMAW) 2) 609.2-S-140 (GMAW, SMAW) 3) 609.2-S-94-1(SMAW) 4) 609.2-S-161 (GMAW)						PROCESS: CO2, DESIGN PRESS. PSI (kPa): 325 (2241), DESIGN TEMP. °F (°C): 115° (48°), TEST PRESS. PSI (kPa): 488 (3362), TEST MEDIUM: H2O, MATERIAL SPEC. AND GRADE: SA-108-B, SA-234-WPB, SA-105, PIPE DIAMETER AND SCHEDULE: 2" SCH STD, 2" SCH XH, 3" SCH STD, 3" SCH XH, 6" SCH STD, 6" SCH XH, FLANGE RATING: CL 300, R.T. %: 6X												REVISED ITEMS #14, 15, 33 & 35. REVISED ITEMS #17, 19, 20, 24, 26, 27, 48 & 50. REVISED LOCATION OF 2" VAPOUR LINE FROM 6" PIPE. REVISED 2" BLOWDOWN LINE FROM BOTTOM OF 6" PIPE TO 2" BALL VALVE. REVISED ITEMS #13, 25, 27 & 68. CHANGED 1/2" THREADED PIPE TO A 6" NIPPLE 5 FT LG. ORIGINATED FROM DWG 2000-01150, REV. B.											
														THIRD ANGLE PROJECTION				SEE DRAWING 2002-07070 FOR APPLICABLE TOLERANCES UNLESS OTHERWISE STATED				JOB DRAWING No. 2003-08410 SHEET 1 OF 1							
														REV NO. DRWN ENG PLANT QC DATE				DESCRIPTION				SCALE: NTS P/N - 67895							